

Data Validation Checklist

Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270D Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-85785-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 12/12/2012
 Date: 01/17/2013
 Date: 01/20/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank(s)?	✓			The following contamination was observed in one of two method blanks reported in this data package: MB 640-98123/1-A: • Benzo[a]anthracene @ 9.11 µg/Kg (RL 6.6, MDL	

¹ All analytical work subcontracted to TestAmerica of Tallahassee, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				0.61) <ul style="list-style-type: none"> • Benzo[a]pyrene @ 12.7 µg/Kg (RL 6.6, MDL 0.67) • Benzo[b]fluoranthene @ 16.3 µg/Kg (RL 6.6, MDL 0.92) • Benzo[g,h,i]perylene @ 7.72 µg/Kg (RL 6.6, MDL 1.1) • Benzo[k]fluoranthene @ 6.96 µg/Kg (RL 6.6, MDL 0.63) • Chrysene @ 9.23 µg/Kg (RL 6.6, MDL 0.73) • Dibenz(a,h)anthracene @ 2.51 J µg/Kg (RL 6.6, MDL 0.64) • Fluoranthene @ 5.19 J µg/Kg (RL 6.6, MDL 0.59) • Indeno[1,2,3-cd]pyrene @ 8.74 µg/Kg (RL 6.6, MDL 1.1) • Pyrene @ 4.83 J µg/Kg (RL 6.6, MDL 0.51) 	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 121112-RB-Shovel (680-85731-47).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (121112-RB-Shovel) was collected during the week of 12/10/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-85731-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x blank concentration (10x for common blank contaminants – phthalates)	✓			Blank contamination action levels (BCALs) ³ : <ul style="list-style-type: none"> • Benzo[a]anthracene: 45.5 µg/Kg (9.11 µg/Kg x5) • Benzo[a]pyrene: 63.5 µg/Kg (12.7 µg/Kg x5) • Benzo[b]fluoranthene: 81.5 µg/Kg (16.3 µg/Kg x5) • Benzo[g,h,i]perylene: 38.6 µg/Kg (7.72 µg/Kg x5) • Benzo[k]fluoranthene: 34.8 µg/Kg (6.96 µg/Kg x5) • Chrysene: 46.15 µg/Kg (9.23 µg/Kg x5) • Dibenz(a,h)anthracene: 12.55 µg/Kg (2.51 J µg/Kg x5) • Fluoranthene: 25.95 µg/Kg (5.19 J µg/Kg x5) • Indeno[1,2,3-cd]pyrene: 43.7 µg/Kg (8.74 µg/Kg x5) 	U

³ BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				<ul style="list-style-type: none"> • Pyrene: 24.15 µg/Kg (4.83 J µg/Kg x5) <p>Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount found in the sample.</p>	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> • CV0511A-CSD (680-85785-31) and CV0511A-CS (680-85785-30) • CV0511B-CSD (680-85785-33) and CV0511B-CS (680-85785-32) • CV0511C-CSD (680-85785-35) and CV0511C-CS (680-85785-34) • CV0511D-CSD (680-85785-37) and CV0511D-CS (680-85785-36) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Instrument ID: TSMA5973 • Initial Calibration: 12/26/2012 • ICV: 12/26/12 @ 17:01 • CCV: 12/26/12 @ 18:11 & 12/27/12 @08:30 • Instrument ID: TSMC5973 • Initial Calibration: 12/23/2012 • ICV: 12/23/12 @ 14:44 • CCV: 12/26/12 @ 13:52 & 12/27/12 @08:25 	
19. Were calibration results within laboratory/project specifications?		✓		<ul style="list-style-type: none"> • ICV of 12/26/12 @ 17:01, instrument TSMA5973: Dibenz(a,h)anthracene %D @ -22.4 (Lab: \leq30, Project: \leq20). J/UJ-Flag result in associated 	J, UJ

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> ICAL (Criteria: ≤ 15 mean %RSD with no individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 				<ul style="list-style-type: none"> samples ICV of 12/23/12 @ 14:44, instrument TSMC5973: Dibenz(a,h)anthracene %D @ -23.4 (Lab: ≤ 30, Project: ≤ 20). J/UJ-Flag result in associated samples 	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R $>$ Upper Control Limit (UCL) and J/R-flag results when %R $<$ Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects	✓			LCSD for Prep Batch 98122 only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> Prep Batch 98122: 680-85785-29 (CV0511AB-GS), MS/MSD Prep Batch 98123: 680-85785-52 (Batch sample), MS/MSD. Lab sample 680-85785-52 is a project-specific sample (CV0511S-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-85785-3. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. If either MS or MSD recovery meets control limits, qualification of data is not warranted. 		✓		All MS and MSD recoveries were outside of control limits during the analysis of sample CV0511AB-GS (680-85785-29) for PAHs (refer to Attachment C). In all instances, the native sample concentration was more than four times the spike concentration; therefore, an evaluation of matrix interference is not possible.	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results 					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 		✓		<p>o-Terphenyl recovered outside the surrogate recovery criteria for the following sample:</p> <ul style="list-style-type: none"> • CV0511AB-GS (680-85785-29), DF=1000: 0%R (39-100) • CV0511A-CS (680-85785-30), DF=50: 0%R (39-100) • CV0511A-CSD (680-85785-31), DF=100: 0%R (39-100) • CV0511H-CS (680-85785-41), DF=20: 0%R (39-100) <p>Qualification of PAH results in the above-mentioned samples due to zero surrogate recovery is not required, because the surrogate was not recovered to due sample dilution.</p>	
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 					
29. Were lab comments included in report?	✓			Refer to Attachment D (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment E**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
 R The sample results are unusable. The analyte may or may not be present in the sample.
 U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
 UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-85785-21	CV0703B-CS-SP	Solid	12/12/12 15:16	12/14/12 11:51
680-85785-22	CV0705A-CS-SP	Solid	12/12/12 14:35	12/14/12 11:51
680-85785-23	CV0705B-CS-SP	Solid	12/12/12 14:46	12/14/12 11:51
680-85785-24	CV0705C-GS	Solid	12/12/12 14:56	12/14/12 11:51
680-85785-25	HP0179A-CS-SP	Solid	12/12/12 13:42	12/14/12 11:51
680-85785-26	HP0179B-CS-SP	Solid	12/12/12 13:58	12/14/12 11:51
680-85785-27	HP0294A-CS-SP	Solid	12/12/12 13:12	12/14/12 11:51
680-85785-28	HP0294B-CS-SP	Solid	12/12/12 13:04	12/14/12 11:51
680-85785-29	CV0511AB-GS	Solid	12/12/12 11:24	12/14/12 11:51
680-85785-30	CV0511A-CS	Solid	12/12/12 10:00	12/14/12 11:51
680-85785-31	CV0511A-CSD	Solid	12/12/12 10:00	12/14/12 11:51
680-85785-32	CV0511B-CS	Solid	12/12/12 10:05	12/14/12 11:51
680-85785-33	CV0511B-CSD	Solid	12/12/12 10:05	12/14/12 11:51
680-85785-34	CV0511C-CS	Solid	12/12/12 10:10	12/14/12 11:51
680-85785-35	CV0511C-CSD	Solid	12/12/12 10:10	12/14/12 11:51
680-85785-36	CV0511D-CS	Solid	12/12/12 10:20	12/14/12 11:51
680-85785-37	CV0511D-CSD	Solid	12/12/12 10:20	12/14/12 11:51
680-85785-38	CV0511E-CS	Solid	12/12/12 10:25	12/14/12 11:51
680-85785-39	CV0511F-CS	Solid	12/12/12 10:35	12/14/12 11:51
680-85785-40	CV0511G-CS	Solid	12/12/12 10:40	12/14/12 11:51
680-85785-41	CV0511H-CS	Solid	12/12/12 10:45	12/14/12 11:51

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0511C-CS 680-85785-34	RL	CV0511C-CSD 680-85785-35	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	19	9.2	20	J	9.5 $\mu\text{g/kg}$	46.75	NA	1	18.7	None, absolute difference \leq 2x Avg RL
Anthracene	45	9.2	50		9.5 $\mu\text{g/kg}$	46.75	NA	5	18.7	None, absolute difference \leq 2x Avg RL
Benzo(a)anthracene	170	9.2	200		9.5 $\mu\text{g/kg}$	46.75	16	NA	NA	None, RPD \leq 50%
Benzo(a)pyrene	220	9.2	250		9.5 $\mu\text{g/kg}$	46.75	13	NA	NA	None, RPD \leq 50%
Benzo(b)fluoranthene	390	9.2	450		9.5 $\mu\text{g/kg}$	46.75	14	NA	NA	None, RPD \leq 50%
Benzo(g,h,i)perylene	72	9.2	71		9.5 $\mu\text{g/kg}$	46.75	1	NA	NA	None, RPD \leq 50%
Benzo(k)fluoranthene	130	9.2	160		9.5 $\mu\text{g/kg}$	46.75	21	NA	NA	None, RPD \leq 50%
Chrysene	230	9.2	260		9.5 $\mu\text{g/kg}$	46.75	12	NA	NA	None, RPD \leq 50%
Dibenzo(a,h)anthracene	28	9.2	28		9.5 $\mu\text{g/kg}$	46.75	NA	0	18.7	None, absolute difference \leq 2x Avg RL
Fluoranthene	340	9.2	400		9.5 $\mu\text{g/kg}$	46.75	16	NA	NA	None, RPD \leq 50%
Fluorene	12	9.2	13		9.5 $\mu\text{g/kg}$	46.75	NA	1	18.7	None, absolute difference \leq 2x Avg RL
Indeno(1,2,3-cd)pyrene	91	9.2	91		9.5 $\mu\text{g/kg}$	46.75	0	NA	NA	None, RPD \leq 50%
1-Methylnaphthalene	16	9.2	17	J	9.5 $\mu\text{g/kg}$	46.75	NA	1	18.7	None, absolute difference \leq 2x Avg RL
2-Methylnaphthalene	21	9.2	22		9.5 $\mu\text{g/kg}$	46.75	NA	1	18.7	None, absolute difference \leq 2x Avg RL
Naphthalene	18	9.2	19	J	9.5 $\mu\text{g/kg}$	46.75	NA	1	18.7	None, absolute difference \leq 2x Avg RL
Phenanthrene	170	9.2	200		9.5 $\mu\text{g/kg}$	46.75	16	NA	NA	None, RPD \leq 50%
Pyrene	260	9.2	300		9.5 $\mu\text{g/kg}$	46.75	14	NA	NA	None, RPD \leq 50%

Note: If the analyte was not detected, then the cell was left blank.

$\mu\text{g/kg}$ - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0511B-CS 680-85785-32	RL	CV0511B-CSD 680-85785-33	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	21	19	20	J	38	µg/kg	142.5	NA	1	57	None, absolute difference ≤ 2x Avg RL
Anthracene	130	19	450		38	µg/kg	142.5	NA	320	57	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	510	19	1200		38	µg/kg	142.5	81	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	590	19	1200		38	µg/kg	142.5	68	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	790	19	1500		38	µg/kg	142.5	62	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	400	19	700		38	µg/kg	142.5	55	NA	NA	J/UJ-flag, RPD > 50%
Benzo(k)fluoranthene	320	19	630		38	µg/kg	142.5	65	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	620	19	1300		38	µg/kg	142.5	71	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	120	19	190		38	µg/kg	142.5	NA	70	57	J/UJ-flag, absolute difference > 2x Avg RL
Fluoranthene	1000	19	2600		38	µg/kg	142.5	89	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	44	19	180		38	µg/kg	142.5	NA	136	57	J/UJ-flag, absolute difference > 2x Avg RL
Indeno(1,2,3-cd)pyrene	430	19	810		38	µg/kg	142.5	61	NA	NA	J/UJ-flag, RPD > 50%
1-Methylnaphthalene	23	19	30	J	38	µg/kg	142.5	NA	7	57	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	32	19	40		38	µg/kg	142.5	NA	8	57	None, absolute difference ≤ 2x Avg RL
Naphthalene	23	19	30	J	38	µg/kg	142.5	NA	7	57	None, absolute difference ≤ 2x Avg RL
Phenanthrene	580	19	2000		38	µg/kg	142.5	110	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	820	19	2000		38	µg/kg	142.5	84	NA	NA	J/UJ-flag, RPD > 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0511A-CS 680-85785-30	RL	CV0511A-CSD 680-85785-31	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	36 J	430		850	µg/kg	3200	NA	36	1280	None, absolute difference \leq 2x Avg RL
Anthracene	5300	430	16000	850	µg/kg	3200	100	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)anthracene	12000	430	24000	850	µg/kg	3200	67	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	11000	430	20000	850	µg/kg	3200	58	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	13000	430	25000	850	µg/kg	3200	63	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	6200	430	10000	850	µg/kg	3200	47	NA	NA	None, RPD \leq 50%
Benzo(k)fluoranthene	6000	430	10000	850	µg/kg	3200	50	NA	NA	None, RPD \leq 50%
Chrysene	12000	430	23000	850	µg/kg	3200	63	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	1900	430	2700	850	µg/kg	3200	NA	800	1280	None, absolute difference \leq 2x Avg RL
Fluoranthene	29000	430	64000	850	µg/kg	3200	75	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	2400	430	7200	850	µg/kg	3200	NA	4800	1280	J/UJ-flag, absolute difference $>$ 2x Avg RL
Indeno(1,2,3-cd)pyrene	7100	430	12000	850	µg/kg	3200	51	NA	NA	J/UJ-flag, RPD > 50%
1-Methylnaphthalene	96 J	430	350 J	850	µg/kg	3200	NA	254	1280	None, absolute difference \leq 2x Avg RL
2-Methylnaphthalene	110 J	430	380 J	850	µg/kg	3200	NA	270	1280	None, absolute difference \leq 2x Avg RL
Naphthalene	150 J	430	430 J	850	µg/kg	3200	NA	280	1280	None, absolute difference \leq 2x Avg RL
Phenanthrene	24000	430	63000	850	µg/kg	3200	90	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	22000	430	48000	850	µg/kg	3200	74	NA	NA	J/UJ-flag, RPD > 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0511D-CS 680-85785-36	RL	CV0511D-CSD 680-85785-37	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	57	37	59 J	46	µg/kg	207.5	NA	2	83	None, absolute difference ≤ 2x Avg RL
Anthracene	300	37	850	46	µg/kg	207.5	96	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)anthracene	1100	37	1600	46	µg/kg	207.5	37	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	1200	37	1400	46	µg/kg	207.5	15	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	1700	37	1800	46	µg/kg	207.5	6	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	960	37	940	46	µg/kg	207.5	2	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	610	37	750	46	µg/kg	207.5	21	NA	NA	None, RPD ≤ 50%
Chrysene	1300	37	1600	46	µg/kg	207.5	21	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	250	37	250	46	µg/kg	207.5	0	NA	NA	None, RPD ≤ 50%
Fluoranthene	2200	37	3800	46	µg/kg	207.5	53	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	100	37	390	46	µg/kg	207.5	NA	290	83	J/UJ-flag, absolute difference > 2x Avg RL
Indeno(1,2,3-cd)pyrene	990	37	1000	46	µg/kg	207.5	1	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	37	37	140 J	46	µg/kg	207.5	NA	103	83	J/UJ-flag, absolute difference > 2x Avg RL
2-Methylnaphthalene	43	37	180	46	µg/kg	207.5	NA	137	83	J/UJ-flag, absolute difference > 2x Avg RL
Naphthalene	57	37	420 J	46	µg/kg	207.5	NA	363	83	J/UJ-flag, absolute difference > 2x Avg RL
Phenanthrene	1300	37	3700	46	µg/kg	207.5	96	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	1700	37	2800	46	µg/kg	207.5	49	NA	NA	None, RPD ≤ 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

MS/MSD RESULTS

QC Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

~~Lab Sample ID: LCS 640-98122/2-A~~
~~Matrix: Solid~~
~~Analysis Batch: 98286~~

~~Client Sample ID: Lab Control Sample~~
~~Prep Type: Total/NA~~
~~Prep Batch: 98122~~

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	90		39 - 100

~~Lab Sample ID: LCSD 640-98122/3-A~~
~~Matrix: Solid~~
~~Analysis Batch: 98286~~

~~Client Sample ID: Lab Control Sample Dup~~
~~Prep Type: Total/NA~~
~~Prep Batch: 98122~~

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Acenaphthene	131	99.1		ug/Kg		76	42 - 107	4	29
Acenaphthylene	131	95.1		ug/Kg		73	41 - 108	4	28
Anthracene	131	110		ug/Kg		84	52 - 107	5	23
Benzo[a]anthracene	131	109		ug/Kg		83	64 - 115	2	23
Benzo[a]pyrene	131	117		ug/Kg		90	70 - 116	1	23
Benzo[b]fluoranthene	131	109		ug/Kg		83	60 - 117	3	25
Benzo[g,h,i]perylene	131	73.2		ug/Kg		56	40 - 137	1	27
Benzo[k]fluoranthene	131	112		ug/Kg		85	63 - 117	1	25
Chrysene	131	111		ug/Kg		85	63 - 114	0	24
Dibenz(a,h)anthracene	131	99.0		ug/Kg		76	48 - 130	1	27
Fluoranthene	131	114		ug/Kg		88	61 - 112	1	25
Fluorene	131	99.3		ug/Kg		76	45 - 106	4	36
Indeno[1,2,3-cd]pyrene	131	99.2		ug/Kg		76	44 - 128	1	26
1-Methylnaphthalene	131	95.7		ug/Kg		73	46 - 100	5	33
2-Methylnaphthalene	131	98.2		ug/Kg		75	46 - 104	8	33
Naphthalene	131	90.6		ug/Kg		69	44 - 100	7	33
Phenanthrene	131	110		ug/Kg		84	51 - 106	1	27
Pyrene	131	103		ug/Kg		79	61 - 115	2	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	91		39 - 100

~~Lab Sample ID: 680-85785-29 MS~~
~~Matrix: Solid~~
~~Analysis Batch: 98286~~

~~Client Sample ID: CV0511AB-GS~~
~~Prep Type: Total/NA~~
~~Prep Batch: 98122~~

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
Acenaphthene	87000		239	58400	4	ug/Kg	⊗	-1197	30 - 100	
								2		
Acenaphthylene	1400	J	239	1190	J 4	ug/Kg	⊗	-91	26 - 102	
Anthracene	140000		239	91600	4	ug/Kg	⊗	-1839	33 - 100	
								7		
Benzo[a]anthracene	240000		239	172000	4	ug/Kg	⊗	-2959	24 - 120	
								8		
Benzo[a]pyrene	240000		239	163000	4	ug/Kg	⊗	-3123	19 - 138	
								5		
Benzo[b]fluoranthene	300000		239	206000	4	ug/Kg	⊗	-4033	26 - 124	
								4		
Benzo[g,h,i]perylene	80000		239	58200	4	ug/Kg	⊗	-8955	10 - 129	
								6		
Benzo[k]fluoranthene	140000		239	95100	4	ug/Kg	⊗	-1723	27 - 126	

QC Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
SDG: 68085785-2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-85785-29 MS

Client Sample ID: CV0511AB-GS

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 98286

Prep Batch: 98122

Analyte	Sample	Sample	Spike	MS	MS		%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chrysene	260000		239	195000	4	ug/Kg	⊗	-2889	26 - 121
							⊗	3	
Dibenz(a,h)anthracene	31000		239	21800	4	ug/Kg	⊗	-3656	10 - 123
Fluoranthene	660000		239	456000	4	ug/Kg	⊗	-8375	21 - 122
							⊗	9	
Fluorene	63000		239	39500	4	ug/Kg	⊗	-9818	35 - 100
Indeno[1,2,3-cd]pyrene	110000		239	78300	4	ug/Kg	⊗	-1289	10 - 125
							⊗	3	
1-Methylnaphthalene	2800	J	239	1880	J 4	ug/Kg	⊗	-396	31 - 100
2-Methylnaphthalene	5600	J	239	3040	J 4	ug/Kg	⊗	-1074	31 - 100
Naphthalene	6200	J	239	2900	J 4	ug/Kg	⊗	-1364	27 - 100
Phenanthrene	580000		239	378000	4	ug/Kg	⊗	-8474	29 - 110
							⊗	9	
Pyrene	450000		239	319000	4	ug/Kg	⊗	-5444	19 - 129
							⊗	6	
MS MS									
Surrogate	%Recovery		Qualifier		Limits				
	0		X		39 - 100				
<i>o-Terphenyl (Surr)</i>									

Lab Sample ID: 680-85785-29 MSD

Matrix: Solid

Analysis Batch: 98286

Client Sample ID: CV0511AB-GS

Prep Type: Total/NA

Prep Batch: 98122

Analyte	Sample	Sample	Spike	MSD		MSD	%Rec.			RPD	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	87000		240	64400	4	ug/Kg	⊗	-9387	30 - 100	10	45
Acenaphthylene	1400	J	240	1000	J 4	ug/Kg	⊗	-167	26 - 102	17	45
Anthracene	140000		240	115000	4	ug/Kg	⊗	-8355	33 - 100	23	33
Benzo[a]anthracene	240000		240	232000	4	ug/Kg	⊗	-4395	24 - 120	30	39
Benzo[a]pyrene	240000		240	217000	4	ug/Kg	⊗	-8738	19 - 138	28	44
Benzo[b]fluoranthene	300000		240	265000	4	ug/Kg	⊗	-1551	26 - 124	25	34
							2				
Benzo[g,h,i]perylene	80000		240	71600	4	ug/Kg	⊗	-3341	10 - 129	21	40
Benzo[k]fluoranthene	140000		240	127000	4	ug/Kg	⊗	-3938	27 - 126	29	36
Chrysene	260000		240	254000	4	ug/Kg	⊗	-4262	26 - 121	26	33
Dibenz(a,h)anthracene	31000		240	23900	4	ug/Kg	⊗	-2777	10 - 123	9	40
Fluoranthene	660000		240	591000	4	ug/Kg	⊗	-2737	21 - 122	26	37
							7				
Fluorene	63000		240	50200	4	ug/Kg	⊗	-5295	35 - 100	24	38
Indeno[1,2,3-cd]pyrene	110000		240	102000	4	ug/Kg	⊗	-3170	10 - 125	26	40
1-Methylnaphthalene	2800	J	240	2180	J 4	ug/Kg	⊗	-270	31 - 100	15	41
2-Methylnaphthalene	5600	J	240	2750	J 4	ug/Kg	⊗	-1189	31 - 100	10	44
Naphthalene	6200	J	240	2820	J 4	ug/Kg	⊗	-1387	27 - 100	3	39
Phenanthrene	580000		240	490000	4	ug/Kg	⊗	-3761	29 - 110	26	36
							5				
Pyrene	450000		240	418000	4	ug/Kg	⊗	-1294	19 - 129	27	37
							4				
MSD MSD											
Surrogate	%Recovery		Qualifier		Limits						
	0	X			39 - 100						
<i>o-Terphenyl (Surr)</i>											

ATTACHMENT D

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
SDG: 68085785-2

Job ID: 680-85785-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-85785-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/14/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.2° C and 5.6° C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL

Samples CV0703B-CS-SP (680-85785-21), CV0705A-CS-SP (680-85785-22), CV0705B-CS-SP (680-85785-23), CV0705C-GS (680-85785-24), HP0179A-CS-SP (680-85785-25), HP0179B-CS-SP (680-85785-26), HP0294A-CS-SP (680-85785-27), HP0294B-CS-SP (680-85785-28), CV0511AB-GS (680-85785-29), CV0511A-CS (680-85785-30), CV0511A-CSD (680-85785-31), CV0511B-CS (680-85785-32), CV0511B-CSD (680-85785-33), CV0511C-CS (680-85785-34), CV0511C-CSD (680-85785-35), CV0511D-CS (680-85785-36), CV0511D-CSD (680-85785-37), CV0511E-CS (680-85785-38), CV0511F-CS (680-85785-39), CV0511G-CS (680-85785-40) and CV0511H-CS (680-85785-41) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 12/17/2012 and analyzed on 12/26/2012 and 12/27/2012.

Samples CV0511AB-GS (680-85785-29)[1000X], CV0511A-CS (680-85785-30)[50X], CV0511A-CSD (680-85785-31)[100X], CV0511B-CS (680-85785-32)[2X], CV0511B-CSD (680-85785-33)[4X], CV0511D-CS (680-85785-36)[4X], CV0511D-CSD (680-85785-37)[5X], CV0511E-CS (680-85785-38)[2X], CV0511F-CS (680-85785-39)[2X], CV0511G-CS (680-85785-40)[4X] and CV0511H-CS (680-85785-41)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. Surrogates did not recover in these samples due to the required dilutions.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Several analytes were detected in method blank MB 640-98123/1-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Dibenz(a,h)anthracene, Fluoranthene and Pyrene were detected in method blank MB 640-98123/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

A crack in the vial caused the laboratory control sample duplicate (LCSD) for batch 640-98123 to be lost. The laboratory control sample (LCS) passed control criteria and has been reported. Prep batch 640-98123 was not reextracted due to the expiration of holding times. The data has been qualified and reported.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0511AB-GS (680-85785-29).

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
SDG: 68085785-2

Job ID: 680-85785-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

The matrix spike and matrix spike duplicate (MS/MSD) for 680-85785-29 in batch 640-98122 was diluted due to the abundance of target analytes. As such, surrogate and spike recoveries were diluted out.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: the internal standard (ISTD) level was raised from 2.0 ppm to 40 ppm.

The minimum relative response factor (RRF) criteria for the CCVIS analyzed in batches 640-98325 and 98315 was outside criteria for the following analytes: phenanthrene, benzo(a)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analytes is considered estimated.

ATTACHMENT E

QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0703B-CS-SP

Date Collected: 12/12/12 15:16
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-21

Matrix: Solid
 Percent Solids: 81.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.9	J	8.2	0.71	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Acenaphthylene	10		8.2	0.64	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Anthracene	17		8.2	0.80	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Benzo[a]anthracene	68		8.2	0.75	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Benzo[a]pyrene	86		8.2	0.83	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Benzo[b]fluoranthene	150		8.2	1.1	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Benzo[g,h,i]perylene	47	U	8.2	1.3	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Benzo[k]fluoranthene	51		8.2	0.78	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Chrysene	120		8.2	0.91	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Dibenz(a,h)anthracene	18	J	8.2	0.79	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Fluoranthene	120		8.2	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Fluorene	5.2	J	8.2	0.63	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Indeno[1,2,3-cd]pyrene	54		8.2	1.3	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
1-Methylnaphthalene	23		8.2	0.64	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
2-Methylnaphthalene	30		8.2	0.63	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Naphthalene	29		8.2	0.63	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Phenanthrene	86		8.2	0.54	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Pyrene	94		8.2	0.63	ug/Kg	⊗	12/17/12 16:21	12/26/12 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Sur)	88		39 - 100				12/17/12 16:21	12/26/12 17:49	1

Client Sample ID: CV0705A-CS-SP

Date Collected: 12/12/12 14:35
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-22

Matrix: Solid
 Percent Solids: 75.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6.1	J	8.7	0.75	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Acenaphthylene	21		8.7	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Anthracene	32		8.7	0.86	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Benzo[a]anthracene	100		8.7	0.81	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Benzo[a]pyrene	120		8.7	0.88	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Benzo[b]fluoranthene	220		8.7	1.2	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Benzo[g,h,i]perylene	52		8.7	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Benzo[k]fluoranthene	81		8.7	0.83	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Chrysene	170		8.7	0.97	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Dibenz(a,h)anthracene	21	J	8.7	0.84	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Fluoranthene	180		8.7	0.78	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Fluorene	7.4	J	8.7	0.68	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Indeno[1,2,3-cd]pyrene	64		8.7	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
1-Methylnaphthalene	53		8.7	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
2-Methylnaphthalene	56		8.7	0.68	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Naphthalene	37		8.7	0.68	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Phenanthrene	150		8.7	0.57	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Pyrene	130		8.7	0.68	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Sur)	80		39 - 100				12/17/12 16:21	12/26/12 19:05	1

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0705B-CS-SP

Date Collected: 12/12/12 14:46
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-23

Matrix: Solid
 Percent Solids: 77.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.2	J	8.5	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Acenaphthylene	27		8.5	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Anthracene	33		8.5	0.83	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Benzo[a]anthracene	80		8.5	0.78	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Benzo[a]pyrene	99		8.5	0.86	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Benzo[b]fluoranthene	190		8.5	1.2	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Benzo[g,h,i]perylene	42	U	8.5	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Benzo[k]fluoranthene	70		8.5	0.81	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Chrysene	130		8.5	0.95	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Dibenz(a,h)anthracene	17	J	8.5	0.82	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Fluoranthene	120		8.5	0.76	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Fluorene	4.5	J	8.5	0.66	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Indeno[1,2,3-cd]pyrene	54	U	8.5	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
1-Methylnaphthalene	30		8.5	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
2-Methylnaphthalene	33		8.5	0.66	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Naphthalene	27		8.5	0.66	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Phenanthrene	82		8.5	0.56	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Pyrene	98		8.5	0.66	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:24	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	83						12/17/12 16:21	12/26/12 19:24	1
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Client Sample ID: CV0705C-GS

Date Collected: 12/12/12 14:56
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-24

Matrix: Solid
 Percent Solids: 77.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.4	J	8.7	0.75	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Acenaphthylene	10		8.7	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Anthracene	16		8.7	0.85	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Benzo[a]anthracene	46	U	8.7	0.80	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Benzo[a]pyrene	57	U	8.7	0.88	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Benzo[b]fluoranthene	110		8.7	1.2	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Benzo[g,h,i]perylene	24	U	8.7	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Benzo[k]fluoranthene	37	U	8.7	0.03	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Chrysene	80		8.7	0.97	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Dibenz(a,h)anthracene	8.8	UU	8.7	0.84	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Fluoranthene	82		8.7	0.78	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Fluorene	5.4	J	8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Indeno[1,2,3-cd]pyrene	30	U	8.7	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
1-Methylnaphthalene	24		8.7	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
2-Methylnaphthalene	38		8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Naphthalene	28		8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Phenanthrene	72		8.7	0.57	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Pyrene	59		8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 19:43	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	77						12/17/12 16:21	12/26/12 19:43	1
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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: HP0179A-CS-SP
Date Collected: 12/12/12 13:42
Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-25
Matrix: Solid
Percent Solids: 74.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.1	J	8.9	0.77	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Acenaphthylene	17		8.9	0.71	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Anthracene	31		8.9	0.88	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Benzo[a]anthracene	130		8.9	0.83	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Benzo[a]pyrene	140		8.9	0.91	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Benzo[b]fluoranthene	240		8.9	1.3	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Benzo[g,h,i]perylene	53		8.9	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Benzo[k]fluoranthene	85		8.9	0.85	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Chrysene	170		8.9	1.0	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Dibenz(a,h)anthracene	20	J	8.9	0.87	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Fluoranthene	250		8.9	0.80	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Fluorene	8.2	J	8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Indeno[1,2,3-cd]pyrene	64		8.9	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
1-Methylnaphthalene	21		8.9	0.71	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
2-Methylnaphthalene	27		8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Naphthalene	21		8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Phenanthrene	140		8.9	0.59	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Pyrene	170		8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:02	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	87						12/17/12 16:21	12/26/12 20:02	1
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Client Sample ID: HP0179B-CS-SP

Date Collected: 12/12/12 13:58
Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-26
Matrix: Solid
Percent Solids: 76.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.3	J	8.7	0.75	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Acenaphthylene	11		8.7	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Anthracene	18		8.7	0.86	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Benzo[a]anthracene	66		8.7	0.80	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Benzo[a]pyrene	80	U	8.7	0.88	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Benzo[b]fluoranthene	150		8.7	1.2	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Benzo[g,h,i]perylene	38	U	8.7	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Benzo[k]fluoranthene	47		8.7	0.83	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Chrysene	120		8.7	0.97	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Dibenz(a,h)anthracene	13	UU	8.7	0.84	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Fluoranthene	120		8.7	0.78	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Fluorene	5.2	J	8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Indeno[1,2,3-cd]pyrene	44	U	8.7	1.4	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
1-Methylnaphthalene	19		8.7	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
2-Methylnaphthalene	27		8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Naphthalene	24		8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Phenanthrene	82		8.7	0.57	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Pyrene	93		8.7	0.67	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:21	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	77						12/17/12 16:21	12/26/12 20:21	1
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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: HP0294A-CS-SP

Date Collected: 12/12/12 13:12
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-27

Matrix: Solid
 Percent Solids: 73.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	12		8.9	0.77	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Acenaphthylene	19		8.9	0.70	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Anthracene	56		8.9	0.88	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Benzo[a]anthracene	160		8.9	0.82	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Benzo[a]pyrene	190		8.9	0.90	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Benzo[b]fluoranthene	320		8.9	1.2	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Benzo[g,h,i]perylene	71		8.9	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Benzo[k]fluoranthene	120		8.9	0.85	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Chrysene	230		8.9	1.0	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Dibenz(a,h)anthracene	26	J	8.9	0.86	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Fluoranthene	370		8.9	0.80	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Fluorene	15		8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Indeno[1,2,3-cd]pyrene	85		8.9	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
1-Methylnaphthalene	29		8.9	0.70	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
2-Methylnaphthalene	36		8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Naphthalene	35		8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Phenanthrene	250		8.9	0.58	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Pyrene	260		8.9	0.69	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:40	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	72		39 - 100				12/17/12 16:21	12/26/12 20:40	1

Client Sample ID: HP0294B-CS-SP

Date Collected: 12/12/12 13:04
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-28

Matrix: Solid
 Percent Solids: 70.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.1	J	9.4	0.81	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Acenaphthylene	12		9.4	0.74	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Anthracene	21		9.4	0.92	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Benzo[a]anthracene	61	U	9.4	0.87	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Benzo[a]pyrene	75	U	9.4	0.95	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Benzo[b]fluoranthene	140		9.4	1.3	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Benzo[g,h,i]perylene	32	U	9.4	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Benzo[k]fluoranthene	49	U	9.4	0.90	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Chrysene	100		9.4	1.0	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Dibenz(a,h)anthracene	12	UU	9.4	0.91	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Fluoranthene	120		9.4	0.84	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Fluorene	5.3	J	9.4	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Indeno[1,2,3-cd]pyrene	37	U	9.4	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
1-Methylnaphthalene	16		9.4	0.74	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
2-Methylnaphthalene	22		9.4	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Naphthalene	26		9.4	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Phenanthrene	79		9.4	0.62	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Pyrene	87		9.4	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 20:59	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	64		39 - 100				12/17/12 16:21	12/26/12 20:59	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0511AB-GS

Date Collected: 12/12/12 11:24
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-29

Matrix: Solid
 Percent Solids: 55.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	87000		12000	1000	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Acenaphthylene	1400	J	12000	960	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Anthracene	140000		12000	1200	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Benzo[a]anthracene	240000		12000	1100	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Benzo[a]pyrene	240000		12000	1200	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Benzo[b]fluoranthene	300000		12000	1700	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Benzo[g,h,i]perylene	80000		12000	2000	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Benzo[k]fluoranthene	140000		12000	1200	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Chrysene	260000		12000	1400	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Dibenz(a,h)anthracene	31000	J	12000	1200	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Fluoranthene	660000		12000	1100	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Fluorene	63000		12000	940	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Indeno[1,2,3-cd]pyrene	110000		12000	2000	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
1-Methylnaphthalene	2800	J	12000	960	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
2-Methylnaphthalene	5600	J	12000	940	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Naphthalene	6200	J	12000	940	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Phenanthrene	580000		12000	800	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Pyrene	450000		12000	940	ug/Kg	⊗	12/17/12 16:21	12/26/12 18:08	1000
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	0	X		39 - 100			12/17/12 16:21	12/26/12 18:08	1000

Client Sample ID: CV0511A-CS

Date Collected: 12/12/12 10:00
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-30

Matrix: Solid
 Percent Solids: 76.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3100	J	430	38	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Acenaphthylene	36	J	430	34	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Anthracene	5300	J	430	43	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Benzo[a]anthracene	12000	J	430	40	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Benzo[a]pyrene	11000	J	430	44	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Benzo[b]fluoranthene	13000	J	430	61	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Benzo[g,h,i]perylene	6200		430	71	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Benzo[k]fluoranthene	6000		430	41	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Chrysene	12000	J	430	49	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Dibenz(a,h)anthracene	1900	J	430	42	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Fluoranthene	29000	J	430	39	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Fluorene	2400	J	430	34	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Indeno[1,2,3-cd]pyrene	7100	J	430	71	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
1-Methylnaphthalene	96	J	430	34	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
2-Methylnaphthalene	110	J	430	34	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Naphthalene	150	J	430	34	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Phenanthrene	24000	J	430	29	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Pyrene	22000	J	430	34	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:03	50
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	0	X		39 - 100			12/17/12 16:21	12/27/12 09:03	50

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0511A-CSD

Date Collected: 12/12/12 10:00
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-31

Matrix: Solid
 Percent Solids: 77.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9100	J	850	73	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Acenaphthylene	850	U	850	67	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Anthracene	16000	J	850	83	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Benzo[a]anthracene	24000	J	850	78	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Benzo[a]pyrene	20000	J	850	86	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Benzo[b]fluoranthene	25000	J	850	120	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Benzo[g,h,i]perylene	10000		850	140	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Benzo[k]fluoranthene	10000		850	81	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Chrysene	23000	J	850	95	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Dibenz(a,h)anthracene	2700	J	850	82	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Fluoranthene	64000	J	850	76	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Fluorene	7200	J	850	66	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Indeno[1,2,3-cd]pyrene	12000	J	850	140	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
1-Methylnaphthalene	350	J	850	67	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
2-Methylnaphthalene	380	J	850	66	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Naphthalene	430	J	850	66	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Phenanthrene	63000	J	850	56	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Pyrene	48000	J	850	66	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:22	100
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	0	X		39 - 100			12/17/12 16:21	12/27/12 09:22	100

Client Sample ID: CV0511B-CS

Date Collected: 12/12/12 10:05
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-32

Matrix: Solid
 Percent Solids: 70.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	51	J	19	1.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Acenaphthylene	21		19	1.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Anthracene	130	J	19	1.8	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Benzo[a]anthracene	510	J	19	1.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Benzo[a]pyrene	590	J	19	1.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Benzo[b]fluoranthene	790	J	19	2.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Benzo[g,h,i]perylene	400	J	19	3.1	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Benzo[k]fluoranthene	320	J	19	1.8	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Chrysene	620	J	19	2.1	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Dibenz(a,h)anthracene	120	J	19	1.8	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Fluoranthene	1000	J	19	1.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Fluorene	44	J	19	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Indeno[1,2,3-cd]pyrene	430	J	19	3.1	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
1-Methylnaphthalene	23		19	1.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
2-Methylnaphthalene	32		19	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Naphthalene	23		19	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Phenanthrene	580	J	19	1.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Pyrene	820	J	19	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 09:41	2
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	80			39 - 100			12/17/12 16:21	12/27/12 09:41	2

TestAmerica Savannah

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Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)
 Sampling Event: Non-Industrial Use Property

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0511B-CSD

Date Collected: 12/12/12 10:05
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-33

Matrix: Solid
 Percent Solids: 69.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	250	J	38	3.3	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Acenaphthylene	20	J	38	3.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Anthracene	450	J	38	3.8	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Benzo[a]anthracene	1200	J	38	3.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Benzo[a]pyrene	1200	J	38	3.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Benzo[b]fluoranthene	1500	J	38	5.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Benzo[g,h,i]perylene	700	J	38	6.3	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Benzo[k]fluoranthene	630	J	38	3.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Chrysene	1300	J	38	4.3	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Dibenz(a,h)anthracene	190	J	38	3.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Fluoranthene	2600	J	38	3.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Fluorene	180	J	38	3.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Indeno[1,2,3-cd]pyrene	810	J	38	6.3	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
1-Methylnaphthalene	30	J	38	3.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
2-Methylnaphthalene	40		38	3.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Naphthalene	30	J	38	3.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Phenanthrene	2000	J	38	2.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Pyrene	2000	J	38	3.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:00	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	79			39 - 100			12/17/12 16:21	12/27/12 10:00	4

Client Sample ID: CV0511C-CS

Date Collected: 12/12/12 10:10
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-34

Matrix: Solid
 Percent Solids: 72.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11		9.2	0.79	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Acenaphthylene	19		9.2	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Anthracene	45		9.2	0.90	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Benzo[a]anthracene	170		9.2	0.85	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Benzo[a]pyrene	220		9.2	0.93	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Benzo[b]fluoranthene	390		9.2	1.3	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Benzo[g,h,i]perylene	72		9.2	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Benzo[k]fluoranthene	130		9.2	0.88	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Chrysene	230		9.2	1.0	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Dibenz(a,h)anthracene	28	J	9.2	0.89	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Fluoranthene	340		9.2	0.82	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Fluorene	12		9.2	0.71	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Indeno[1,2,3-cd]pyrene	91		9.2	1.5	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
1-Methylnaphthalene	16		9.2	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
2-Methylnaphthalene	21		9.2	0.71	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Naphthalene	18		9.2	0.71	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Phenanthrene	170		9.2	0.60	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Pyrene	260		9.2	0.71	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:35	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	86			39 - 100			12/17/12 16:21	12/26/12 22:35	1

Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site.

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0511C-CSD

Date Collected: 12/12/12 10:10
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-35

Matrix: Solid
 Percent Solids: 69.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	14		9.5	0.82	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Acenaphthylene	20		9.5	0.75	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Anthracene	50		9.5	0.93	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Benzo[a]anthracene	200		9.5	0.87	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Benzo[a]pyrene	250		9.5	0.96	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Benzo[b]fluoranthene	450		9.5	1.3	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Benzo[g,h,i]perylene	71		9.5	1.6	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Benzo[k]fluoranthene	160		9.5	0.90	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Chrysene	260		9.5	1.1	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Dibenz(a,h)anthracene	28	J	9.5	0.92	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Fluoranthene	400		9.5	0.85	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Fluorene	13		9.5	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Indeno[1,2,3-cd]pyrene	91		9.5	1.6	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
1-Methylnaphthalene	17		9.5	0.75	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
2-Methylnaphthalene	22		9.5	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Naphthalene	19		9.5	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Phenanthrene	200		9.5	0.62	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Pyrene	300		9.5	0.73	ug/Kg	⊗	12/17/12 16:21	12/26/12 22:53	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>		85		39 - 100			12/17/12 16:21	12/26/12 22:53	1

Client Sample ID: CV0511D-CS

Date Collected: 12/12/12 10:20
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-36

Matrix: Solid
 Percent Solids: 72.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120		37	3.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Acenaphthylene	57		37	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Anthracene	300	J	37	3.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Benzo[a]anthracene	1100		37	3.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Benzo[a]pyrene	1200		37	3.8	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Benzo[b]fluoranthene	1700		37	5.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Benzo[g,h,i]perylene	960		37	6.1	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Benzo[k]fluoranthene	610		37	3.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Chrysene	1300		37	4.1	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Dibenz(a,h)anthracene	250	J	37	3.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Fluoranthene	2200	J	37	3.3	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Fluorene	100	J	37	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Indeno[1,2,3-cd]pyrene	990		37	6.1	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
1-Methylnaphthalene	37	J	37	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
2-Methylnaphthalene	43	J	37	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Naphthalene	57	J	37	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Phenanthrene	1300	J	37	2.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Pyrene	1700		37	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:19	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>		91		39 - 100			12/17/12 16:21	12/27/12 10:19	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0511D-CSD

Date Collected: 12/12/12 10:20
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-37

Matrix: Solid
 Percent Solids: 72.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	370		46	4.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Acenaphthylene	59		46	3.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Anthracene	850	J	46	4.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Benzo[a]anthracene	1600		46	4.3	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Benzo[a]pyrene	1400		46	4.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Benzo[b]fluoranthene	1800		46	6.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Benzo[g,h,i]perylene	940		46	7.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Benzo[k]fluoranthene	750		46	4.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Chrysene	1600		46	5.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Dibenz(a,h)anthracene	250	J	46	4.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Fluoranthene	3800	J	46	4.1	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Fluorene	390	J	46	3.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Indeno[1,2,3-cd]pyrene	1000		46	7.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
1-Methylnaphthalene	140	J	46	3.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
2-Methylnaphthalene	180	J	46	3.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Naphthalene	420	J	46	3.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Phenanthrene	3700	J	46	3.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Pyrene	2800		46	3.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:38	5
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	87			39 - 100			12/17/12 16:21	12/27/12 10:38	

Client Sample ID: CV0511E-CS

Date Collected: 12/12/12 10:25
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-38

Matrix: Solid
 Percent Solids: 73.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	29		18	1.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Acenaphthylene	29		18	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Anthracene	110		18	1.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Benzo[a]anthracene	490		18	1.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Benzo[a]pyrene	600		18	1.8	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Benzo[b]fluoranthene	810		18	2.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Benzo[g,h,i]perylene	440		18	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Benzo[k]fluoranthene	300		18	1.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Chrysene	580		18	2.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Dibenz(a,h)anthracene	120	J	18	1.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Fluoranthene	850		18	1.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Fluorene	28		18	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Indeno[1,2,3-cd]pyrene	460		18	2.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
1-Methylnaphthalene	15	J	18	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
2-Methylnaphthalene	19		18	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Naphthalene	18		18	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Phenanthrene	400		18	1.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Pyrene	700		18	1.4	ug/Kg	⊗	12/17/12 16:21	12/27/12 10:57	2
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	83			39 - 100			12/17/12 16:21	12/27/12 10:57	2

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
SDG: 68085785-2

Client Sample ID: CV0511F-CS

Date Collected: 12/12/12 10:35

Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-39

Matrix: Solid

Percent Solids: 64.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	23		20	1.8	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Acenaphthylene	18	J	20	1.6	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Anthracene	68		20	2.0	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Benzo[a]anthracene	420		20	1.9	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Benzo[a]pyrene	600		20	2.1	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Benzo[b]fluoranthene	850		20	2.9	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Benzo[g,h,i]perylene	450		20	3.4	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Benzo[k]fluoranthene	300		20	2.0	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Chrysene	550		20	2.3	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Dibenz(a,h)anthracene	120	J	20	2.0	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Fluoranthene	670		20	1.8	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Fluorene	21		20	1.6	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Indeno[1,2,3-cd]pyrene	460		20	3.4	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
1-Methylnaphthalene	20		20	1.6	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
2-Methylnaphthalene	27		20	1.6	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Naphthalene	25		20	1.6	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Phenanthrene	320		20	1.3	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Pyrene	550		20	1.6	ug/Kg	☀	12/17/12 16:21	12/27/12 11:16	2
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)		81		39 - 100			12/17/12 16:21	12/27/12 11:16	2

Client Sample ID: CV0511G-CS

Date Collected: 12/12/12 10:40

Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-40

Matrix: Solid

Percent Solids: 64.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	210		41	3.5	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Acenaphthylene	16	J	41	3.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Anthracene	810		41	4.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Benzo[a]anthracene	1900		41	3.8	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Benzo[a]pyrene	1800		41	4.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Benzo[b]fluoranthene	2200		41	5.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Benzo[g,h,i]perylene	640		41	6.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Benzo[k]fluoranthene	870		41	3.9	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Chrysene	2000		41	4.6	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Dibenz(a,h)anthracene	210	J	41	4.0	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Fluoranthene	3900		41	3.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Fluorene	260		41	3.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Indeno[1,2,3-cd]pyrene	760		41	6.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
1-Methylnaphthalene	44		41	3.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
2-Methylnaphthalene	53		41	3.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Naphthalene	45		41	3.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Phenanthrene	3500		41	2.7	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Pyrene	3300		41	3.2	ug/Kg	⊗	12/17/12 16:21	12/27/12 13:48	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)		93		39 - 100			12/17/12 16:21	12/27/12 13:48	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-2
 SDG: 68085785-2

Client Sample ID: CV0511H-CS

Lab Sample ID: 680-85785-41

Date Collected: 12/12/12 10:45
 Date Received: 12/14/12 11:51

Matrix: Solid
 Percent Solids: 75.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	680		180	15	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Acenaphthylene	62	J	180	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Anthracene	1300		180	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Benzo[a]anthracene	6600	B	180	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Benzo[a]pyrene	6700	B	180	18	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Benzo[b]fluoranthene	11000	B	180	25	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Benzo[g,h,i]perylene	1600	B	180	29	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Benzo[k]fluoranthene	4200	B	180	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Chrysene	6700	B	180	20	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Dibenz(a,h)anthracene	590	B J	180	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Fluoranthene	13000	B	180	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Fluorene	400		180	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Indeno[1,2,3-cd]pyrene	2300	B	180	29	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
1-Methylnaphthalene	17	J	180	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
2-Methylnaphthalene	20	J	180	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Naphthalene	180	U	180	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Phenanthrene	6000		180	12	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Pyrene	11000	B	180	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 17:28	20
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	0	X		39 - 100			12/17/12 16:32	12/27/12 17:28	20

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)